

EXPLANATION
of
Geological Signs
and Colours

SOLID EDITION
This map is issued in two Editions, one of which is coloured to show the Superficial (Drift) Deposits, as well as the Solid Geology.

EXPLANATION
(continued)

- Sediments**
- + Horizontal.
 - + Undulating.
 - + Inclined, amount in degrees.
 - + Highly inclined.
 - + Undulating with general dip.
 - + Vertical.
- Metamorphosed Sediments**
- + Inclined, amount in degrees.
 - + Highly inclined.
 - + Undulating with general dip.
 - + Vertical.
- Glacial**
- Glacial stria, arrow shows direction of ice flow.
 - Glacial stria, direction of ice flow uncertain.
- Geological boundaries (Solid)**
- Geological boundaries (Solid), where uncertain.
 - Dark brown lines show Faults, a crossmark on the downthrow side.
 - Faults where uncertain.
 - Metalliciferous veins.
 - Barytes.
 - Drift boundaries.
 - Alluvium boundaries.
- A descriptive memoir on the Geology of this map is published, 1928.

The Grid on this Sheet is
THE NATIONAL GRID
Projection : Transverse Mercator
Spheroid : Airy
True Origin : Lat. 49° N. Long. 2° W.
False Origin : 400 Kms. West
100 Kms. North

TO GIVE A GRID REFERENCE ON THIS SHEET

EXAMPLE: Balmuccie

East	North
Take west edge of square in which point lies and read the large figure printed opposite this line on north or south margin. Estimate tenth eastward.	Take south edge of square in which point lies and read the large figure printed opposite this line on east or west margin. Estimate tenth northward.
East 915	North 307

REFERENCE: 915307

Similar references occur at intervals of 100 Kilometres i.e. in each of the squares in the Diagram.

GEOLOGICAL SURVEY OF GREAT BRITAIN (SCOTLAND)

GEOLOGICAL MAP
OF
ARRAN.



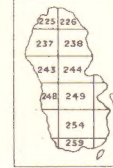
- Superficial Deposits**
- Blown Sand
 - Peat
 - Low River Terrace & Undifferentiated Alluvium
 - Higher Terraces
 - Freshwater Alluvia
 - Present Beach
 - 25 Ft. Beach
 - Intermediate Beaches
 - 100 Ft. Beach
 - Marine Alluvia
 - Moraine
 - Sand & Gravel
 - Boulder Clay
 - Glacial Deposits
- Recent & Pleistocene**
- Tertiary**
- h Upper Cretaceous
 - g¹ Lower Lias
 - fg Rhaetic
 - f Red marls with concretion and sandstone
 - a Dune bedded sandstone and breccia (See also Be)
- Permian**
- Carboniferous**
- Coal Measures
 - d^a Millstone Grit
 - d² Carboniferous limestone Series
 - d³ Carboniferous Sandstone Series (See also Bd⁴, Bd⁵, Zd⁴)
 - Coal crop
 - Limestone crops
- Old Red**
- c³ Cornstone (See also Be³)
 - c¹ Lower (See also Ac¹)
 - b¹ ? Arenig (See also Bb¹, Zb¹)
- Ordovician**
- Metamorphosed Sediments**
- Schistose grit
 - Graphitic shale with thin limestone
 - Schistose grit
 - Slate
- Contemporaneous Lavas and Tuffs**
- B Microporphyratic olivine-basalt in Tertiary vent (mainly lava)
 - Be Microporphyratic olivine-basalt of Tertiary age
 - Bd⁴ Microporphyratic olivine-basalt of Millstone Grit age
 - Bd¹ Olivine-basalt of Dalmanella & Crinoid types of Carboniferous Sandstone age
 - Zb¹ Basaltic tuff of Carboniferous Sandstone age
 - Be³ Microporphyratic olivine-basalt of Upper Old Red Sandstone age
 - Ac¹ Olivine-andesite of Lower Old Red Sandstone age
 - Bb¹ Altered Basalt, of ? Arenig age
 - Zb¹ Tuff of ? Arenig age
 - Agglomerate & breccia in Tertiary vent
- Igneous Intrusions**
- M Olivine dolerite, tholeiite, etc. dykes & basic margin of composite sill
 - D Orininite & teschenite sills
 - qd Quartz-dolerite & quartzite sills
 - O Basaltic-trachyte sill, Holy Island
 - F Felite dykes, sills & vent intrusions
 - P Pitchstone, sills & dykes
 - G Coarse granite
 - G Fine granite
 - G Microgranite
 - G Granophyre, etc.
 - Q Quartz-diorite & mixture rocks (Ring complex)
 - A Augite-diorite (Tighvein)
 - Q Quartz-gabbro & olivine gabbro
 - qd Quartz-dolerite, dykes
 - H Diorite dykes
 - D Altered Dolerite, sill
 - Altered Gabbro

Geologically surveyed by W. Gunn and A. Gaskie, B.N. Penck, District Geologist.
Published in One Inch sheets 21(1901) & 13(1902). Colour-printed Edition, 1910.
2nd Edition with additional information by G.W. Tyrrell and others Published 1947.
W.F.P. McIntosh, D.Sc., Director.

The Altitudes are given in Feet above the assumed Mean Level of the Sea and are indicated thus 126.
The Contours in feet of Sea are given in feet below the assumed Mean Level of the Sea at Liverpool, and are taken from Soundings of Admiralty Survey, 1835.

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Index to Six Inch Sheets
in this Map



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X2. The representation on this map of the Road, Track or Footpath is no evidence of the existence of a right of way.

Revised Price 6s. net.

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in this Map

